

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Hiroyasa KOIZUMI et al.  
Title: HEAT EXCHANGER CORE, AND  
METHOD OF ASSEMBLING THE  
HEAT EXCHANGER CORE

Serial No.: Unassigned

Filing Date: December 15, 1999

Examiner: Unassigned

Art Unit: Unassigned

**UTILITY PATENT APPLICATION**  
**TRANSMITTAL**

Assistant Commissioner for Patents  
Box PATENT APPLICATION  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is the nonprovisional utility patent application of:

Hiroyasu KOIZUMI  
Hiroshi CHIKUMA

Enclosed are:

- ☒ [ X ] Specification, Claim(s), and Abstract (26 pages).
- ☒ [ X ] Informal drawings (11 sheets, Figures 1-16).
- ☒ [ X ] Unexecuted Declaration and Power of Attorney (4 pages).
- ☐ [ ] Assignment of the invention to
- ☐ [ ] Assignment Recordation Cover Sheet.
- ☐ [ ] Small Entity statement.
- ☐ [ ] Information Disclosure Statement.
- ☐ [ ] Form PTO-1449 with copies of \_\_\_\_ listed reference(s).

The filing fee is calculated below:

The filing fee is calculated below:

	Claims as Filed	Included in Basic Fee	Extra Claims	Rate	Fee Totals
Basic Fee				\$760.00	\$760.00
Total Claims:	9	- 20	= 0	x \$18.00	= \$0.00
Independents:	3	- 3	= 0	x \$78.00	= \$0.00
If any Multiple Dependent Claim(s) present:			+	\$260.00	= \$0.00
Surcharge Under 37 C.F.R. 1.16(e)				\$130.00	\$130.00
				SUBTOTAL:	= \$890.00
[ ] Small Entity Fees Apply (subtract ½ of above):					= \$0.00
				TOTAL FILING FEE:	= \$890.00

- [ ] A check in the amount of \$0.00 to cover the filing fee is enclosed.
- [ ] The required filing fees are not enclosed but will be submitted in response to the Notice to File Missing Parts of Application.
- [ X ] The Assistant Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Assistant Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date December 15, 1999

By

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